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009596116 **Image available**

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Vertebral disc endoprosthesis between two vertebrae - has
base and cover plates connectable by bone screws to edge of at least one
plate

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Number of Countries: 011 Number of Patents: 007

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 560140	A1	19930915	EP 93102992	A	19930225	199337 B
DE 4208115	A1	19930916	DE 4208115	A	19920313	199338
US 5556431	A	19960917	US 9328978	A	19930310	199643
			US 94287701	A	19940809	
EP 560140	B1	19980506	EP 93102992	A	19930225	199822
DE 59308489	G	19980610	DE 508489	A	19930225	199829
			EP 93102992	A	19930225	
ES 2117064	T3	19980801	EP 93102992	A	19930225	199838
JP 3181131	B2	20010703	JP 9350583	A	19930311	200139

Priority Applications (No Type Date): DE 4208115 A 19920313

Cited Patents: DE 8807485; US 4636217; US 5062850

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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EP 560140	A1	G	5	A61F-002/44	
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Designated States (Regional): AT CH DE ES FR GB IT LI SE

DE 4208115	A1	4	A61F-002/44	
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US 5556431	A	5	A61F-002/44	Cont of application US 9328978
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EP 560140	B1	G	6	A61F-002/44	
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Designated States (Regional): AT CH DE ES FR GB IT LI SE

DE 59308489	G	A61F-002/44	Based on patent EP 560140
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ES 2117064	T3	A61F-002/44	Based on patent EP 560140
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JP 3181131	B2	4	A61F-002/44	Previous Publ. patent JP 6007390
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Abstract (Basic): EP 560140 A

The base plate (2) and/or the cover plate (1) have retainers for at least one bone screw (9). The retainers extend transversely to the plane of the plates in or at the front edge of at least one plate of the prosthesis.

The link centre of the prosthesis is located rearwards w.r.t. the centre of the vertebra body plates. The bone screw retainers have a hole (8) extending across to the plane of the plates.

ADVANTAGE - Reliable anchorage between the vertebrae, especially with reinforced pelvis.

Dwg.1/5

Abstract (Equivalent): US 5556431 A

An intervertebral disc endoprosthesis for insertion in a vertebral space between two confronting vertebrae to permit substantially full natural movement of the confronting vertebrae, the endoprosthesis comprising a bottom plate, a top plate parallel to the bottom plate and facing in an opposite direction therefrom, and an intermediate core having an articular surface defining a center of articulation of the endoprosthesis, each plate having a front edge, a rear edge, and an outer surface configured to be positioned within the vertebral space and to bear against one of the two confronting vertebrae, at least one of the bottom and the top plates having means along the front edge for receiving at least one bone screw, said screw receiving means being arranged for positioning within the vertebral space and being configured to receive said bone screw at an angle that is within about thirty degrees of a right angle relative to the outer surface of the plate that also is positioned within the vertebral space, said articular surface of said endoprosthesis providing multidirectional articulation including rotation of the adjacent vertebrae and said center of articulation being spaced substantially from but displaced towards the rear edges of the plates.

(Dwg.1/5)

Title Terms: VERTEBRA; DISC; ENDOPROSTHESIS; TWO; VERTEBRA; BASE; COVER;
PLATE; CONNECT; BONE; SCREW; EDGE; ONE; PLATE

Derwent Class: P32

International Patent Class (Main): A61F-002/44

File Segment: EngPI

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